

**REMARKS**

Claims 1-6 are all the claims pending in the present application. Claims 1-6 are rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Corby (US Patent No. 5,524,258).

Briefly, Corby is directed to a real-time data processing system that employs a control computer which defines a pre-processing arrangement of data channels to speed processing, and an arrangement of output data channels to provide a desired output format. The data channels are samples and arranged into a data packet which is passed to an array of digital signal processors (DSPs) arranged in a series of stages, with at least one DSP per stage.

The Examiner rejects claims 1-6 based on the reasons set forth on pages 2-4 of the present Office Action. Applicants traverse the Examiner's rejections at least based on the following reasons.

With respect to independent claim 1, Applicants submit that Corby does not disclose or suggest at least, "a flexible digital signal processor" that comprises, inter alia, an arithmetic logic unit and a program controller. The Examiner appears to allege that the system shown in Fig. 1 corresponds to the claimed digital signal processor. However, a DSP is a specialized microprocessor designed specifically for digital signal processing. The system shown in Fig. 1 of Corby is clearly not representative of a microprocessor, but shows numerous different components/devices of a larger system. Therefore, at least based on the foregoing, Applicants submit that Corby does not anticipate claim 1.

Applicants submit that dependent claims 2-5 are patentable at least by virtue of their dependencies from independent claim 1.

Applicants submit that independent claim 6 is patentable at least based on reasons similar to those set forth above with respect to claim 1. That is, Applicants submit that Corby does not disclose or suggest, “receiving input data by a plurality of inputs coupled to a predefined plurality of interconnected basic operators of an arithmetic logical unit of said flexible digital signal processor,” as recited in claim 6.

Further, with respect to claims 3 and 5, the Examiner alleges:

1. As per claims 3 and 5, Corby taught the dedicated digital signal processing system is a digital front-end system a digital communication system (e.g., see col. 4, lines 18-48). Therefore it would have been obvious to one of ordinary skill that the use of the teaching of Corby would have been applicable to any digital subscriber line system.

In response, Applicants submit that a digital subscriber line (DSL) system relates to a specific type of system that is not described in Corby. That is, a DSL can be a family of technologies that provide data transmission over a wire used in a local telephone network. Nowhere does Corby disclose or suggest that its invention involves a digital subscriber line system. Therefore, Applicants submit that Corby does not anticipate claims 3 and 5.

Further, with respect to dependent claim 4, Applicants submit that even if, *arguendo*, Corby does disclose that a filter operation is performed, nowhere does Corby disclose or suggest the specific operations of a biquad filter operation or a Finite Impulse Response filter operation. These are specific filter operations that are described in claim 4, and Corby does not satisfy these particular features.

At least based on the foregoing, Applicants submit that claims 1-6 are not anticipated by Corby.

**AMENDMENT UNDER 37 C.F.R. § 1.111**  
**U. S. Application No. 10/729,023**

**ATTORNEY DOCKET NO. Q78535**

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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**23373**

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